

PATENT COOPERATION TREATY

PCT RECEIPT

10/543047
21 JUL 2005

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 21924.NP.PCT	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/US04/29286	International filing date (day/month/year) 07 September 2004 (07.09.2004)	(Earliest) Priority Date (day/month/year) 18 September 2003 (18.09.2003)
Applicant SHG LLC		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of ____ sheets.



It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the Report

- a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.



The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. ☐ Certain claims were found unsearchable (See Box No. II)

3. ☒ Unity of invention is lacking (See Box No. III)

4. With regard to the title,



the text is approved as submitted by the applicant.



the text has been established by this Authority to read as follows:

5. With regard to the abstract,



the text is approved as submitted by the applicant.



the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

- a. the figure of the drawings to be published with the abstract is Figure No. 3E



as suggested by the applicant.



as selected by this Authority, because the applicant failed to suggest a figure.



as selected by this Authority, because this figure better characterizes the invention.

- b. ☐ none of the figures is to be published with the abstract.

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:
Please See Continuation Sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
 2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
 3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
 4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-34 and 42-44
- Remark on Protest ☐ The additional search fees were accompanied by the applicant's protest.
☐ No protest accompanied the payment of additional search fees.

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61F 13/15; B65B 5/00,04,06
 US CL : 604/385.01,385.02; 206/438,497,494

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 604/385.01,385.02,385.06,385.13; 206/223,438,439,440,441,494,497,524.8; 53/436,441,469; 190/111

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,666,787 (YOUNG et al) 16 September 1997 (16.09.1997), column 8, lines 26-61;	1-5, 12-15, 25, 27,-28
--	column 5, line 4- column 7, line 7; column 10, lines 12-14.	-----
Y		6-11, 18-19, 29-34, 42-43
X	US 6,321,513 B1 (MEIXNER) 27 November 2001 (27.11.2001), column 4, lines 22-31;	7-8, 11, 17, 25-26
--	column 5, lines 19-49; column 9, lines 15-22; column 8, lines 31-41.	-----
Y		16, 29-34
X	JP 4,339,724 A (KANEDA) 26 November 1992 (26.11.92), Abstract, Figures 1-2.	44
X/P	US 2004/0167489 A1 (KELLENBERGER et al) 26 August 2004 (26.08.2004), Figs. 1-9, 11A-11C; [0039]-[0071].	1-25, 28, 42-43
Y	US 5,234,143 (MAHVI et al) 10 August 1993 (10.08.1993), Figs. 4-8 and 12; column 6, lines 10-27; column 7, lines 55-59; column 8, lines 15-32.	29-30, 32-34
Y	WO 01/64156 A1 (CLARK) 7 September 2001 (07.09.2001), Figs. 1-3; pages 1-4, especially page 2, line 20 - page 3, line 10.	29, 31



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	"&" document member of the same patent family

Date of the actual completion of the international search

30 December 2004 (30.12.2004)

Date of mailing of the international search report

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
 Commissioner for Patents
 P.O. Box 1450
 Alexandria, Virginia 22313-1450

Facsimile No. (703) 305-3230

Authorized officer

Larry Schwartz

Telephone No. 571-272-3700

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BOX III. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.

Group I, claim(s) 1-34 and 42-44, drawn to a packaged diaper.

Group II, claim(s) 35-41, drawn to an infant care kit.

The inventions listed as Groups I and II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Group I relates to packaged diaper whose physical dimensions are manipulated in order to improve the diaper's portability and storage capacity. Group II relates to an infant care kit comprising numerous infant accessories. Although this kit also includes a diaper, it is not specified as being the packaged diaper of Group I. Therefore, there is no direct connection between Group II and the special technical feature of Group I, which is considered to be the reduced packaged diaper.